

## ABSTRACT

5 A lockable safety shield assembly for a prefillable syringe is provided. The  
design of the lockable safety shield assembly enhances pharmaceutical  
manufacturers' ease of assembling the various components as part of its filling or  
processing of the prefillable syringes in normal practice, while at the same time  
minimizes difficulties in mating parts made from different materials. A tube is  
placed around the outside surface of the syringe barrel and affixed thereto. A  
collar is provided on the tube adjacent the distal end of the syringe barrel. A safety  
shield is axially slidable over the tube between a retracted position, wherein the  
10 distal end of the piercing element associated with the prefillable syringe is  
exposed, and an extended position, wherein the safety shield is locked to the  
collar to protectively cover the distal end of the piercing element. The safety  
shield includes locking structure configured so that the shield can be easily fitted  
over the tube. The locking structure includes at least one deflectable arm provided  
15 on the body of the shield. The deflectable arm includes a proximal end deflectable  
towards the interior of the shield. A stop member is provided on the interior of a  
shield in spaced relation to the proximal end of the deflectable arm. A ring is  
axially slidable over the shield to deflect the arm towards the interior of the shield  
to activate the locking structure. The safety shield is slid distally by an end user  
20 such that the collar is lockingly retained between the stop member and the  
proximal end of the deflectable arm. The collar, the stop member, and the  
deflectable arm may be configured to provide tactile as well as audible indication  
of locking to the end user.